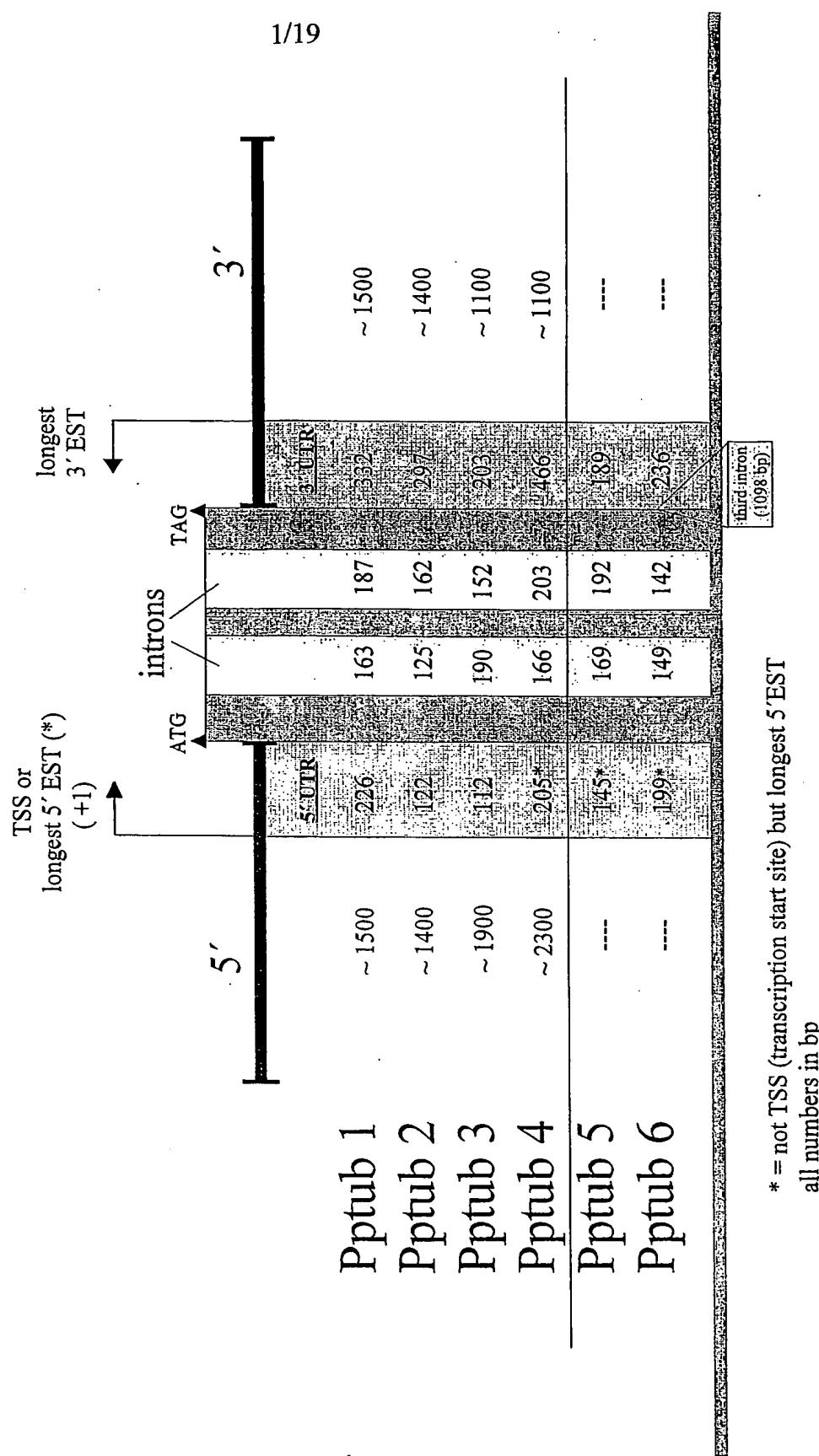
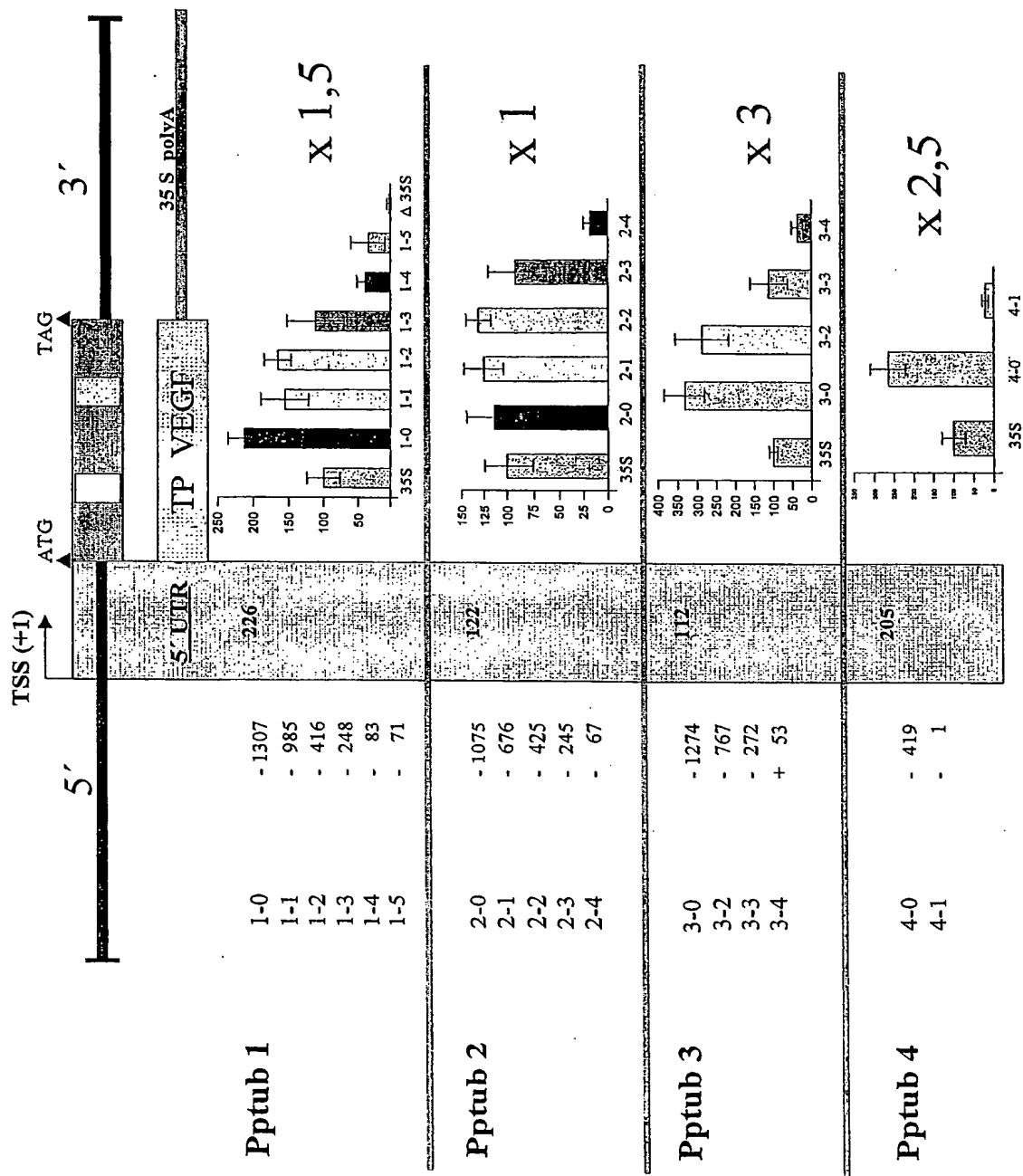


1/19

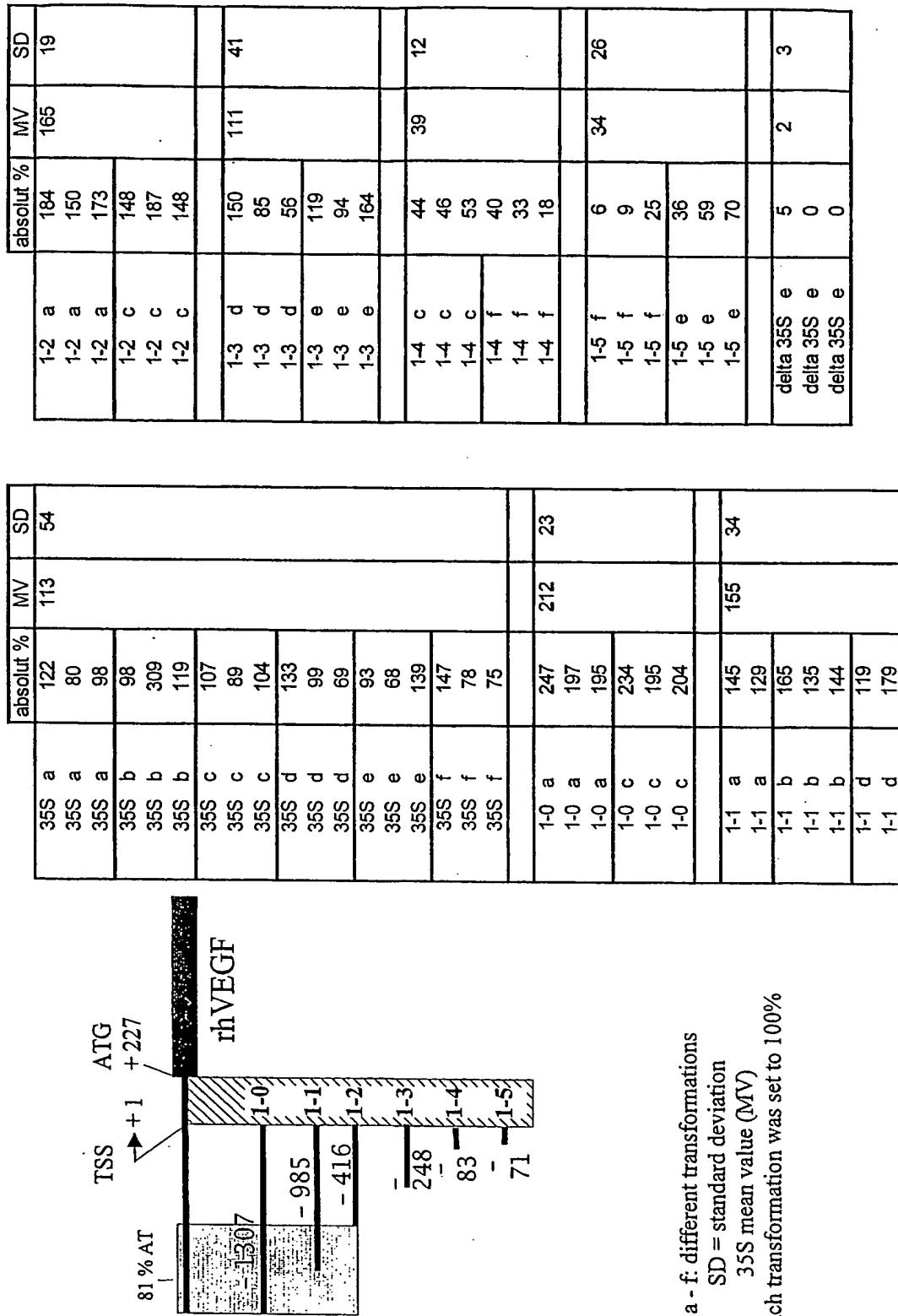


2/19

Fig. 2: Analysis of expression promoting regions of  $\beta$ -tubulins in *Physcomitrella patens*

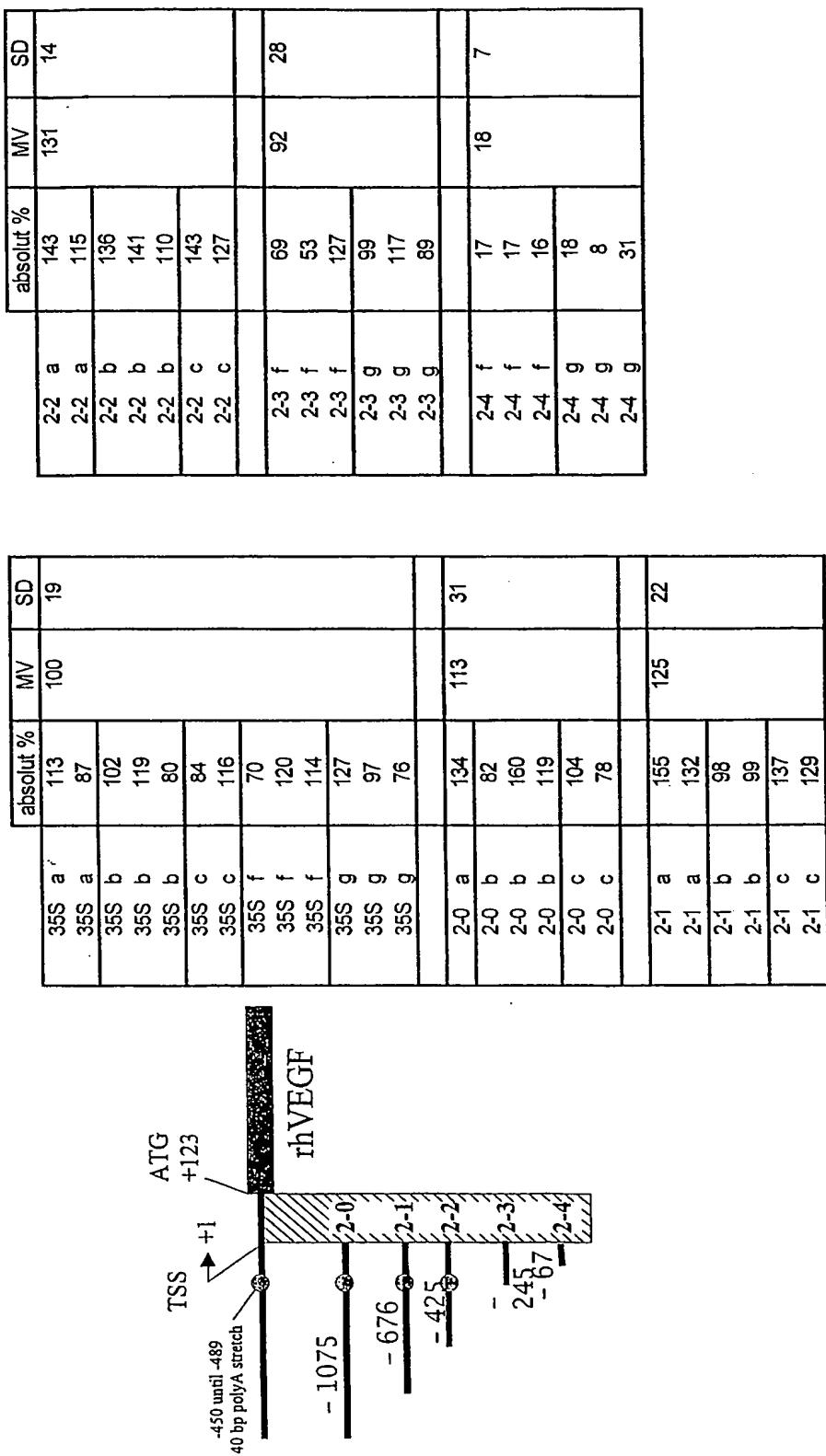
3/19

**Fig. 3:** Analysis of expression promoting regions of Pptub 1 by transient transformation of rhVEGF constructs



4/19

Fig. 4: Analysis of expression promoting regions of Pptub 2 by transient transformation of rhVEGF constructs



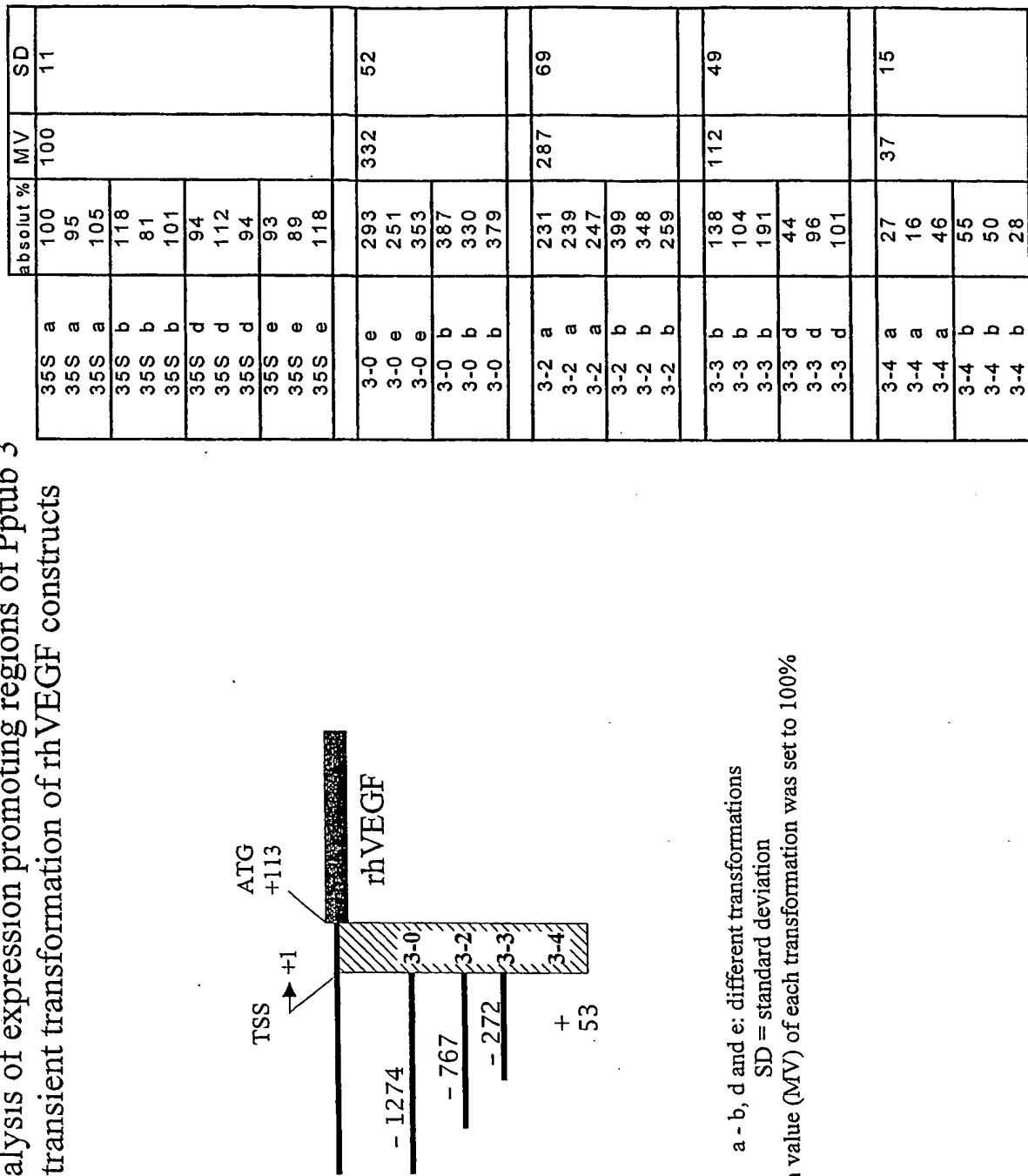
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WO 2005/014807

PCT/EP2004/008580

5/19

Fig. 5: Analysis of expression promoting regions of Pptub 3 by transient transformation of rhVEGF constructs



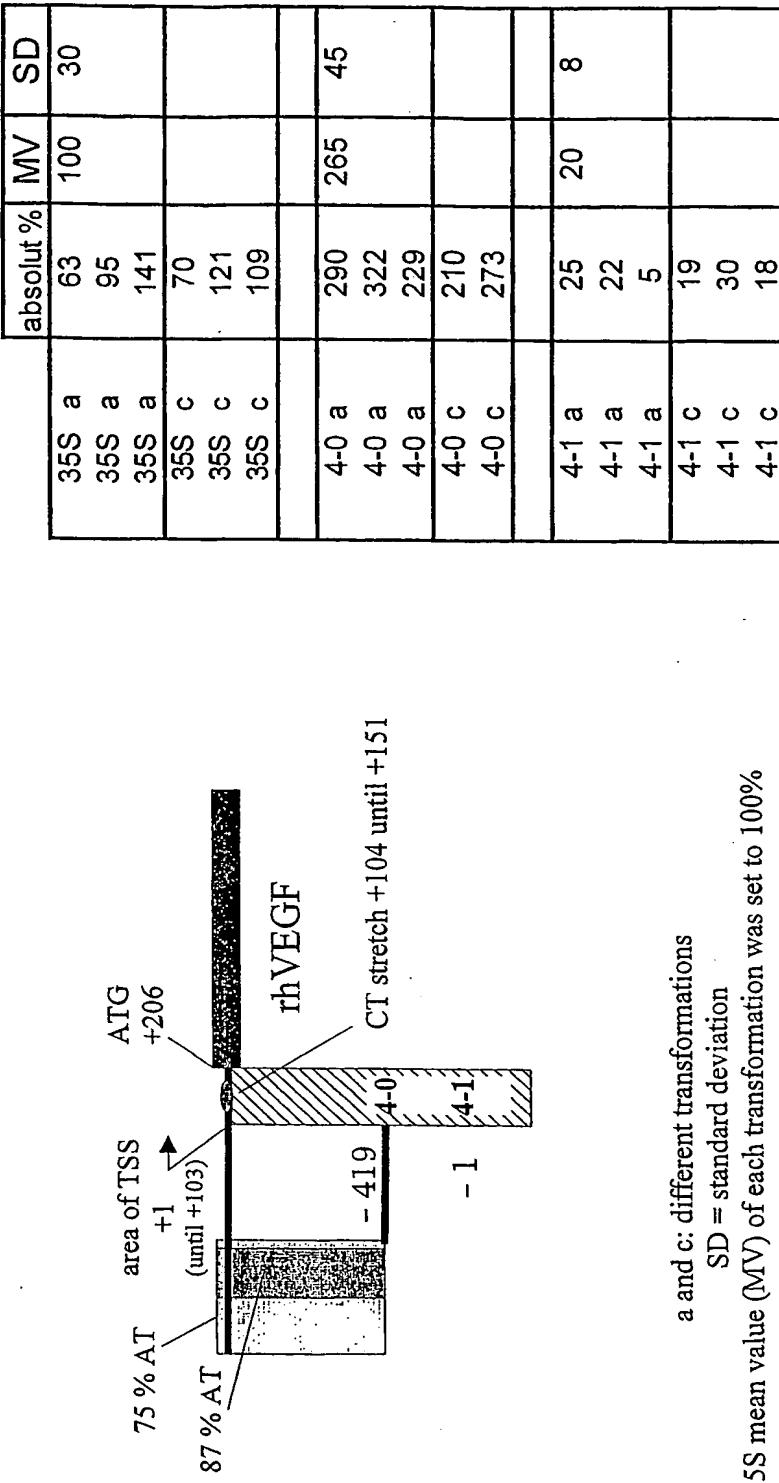
a - b, d and e: different transformations

SD = standard deviation

35S mean value (MV) of each transformation was set to 100%

6/19

Fig. 6: Analysis of expression promoting regions of Pptub 4  
by transient transformation of rhVEGF constructs

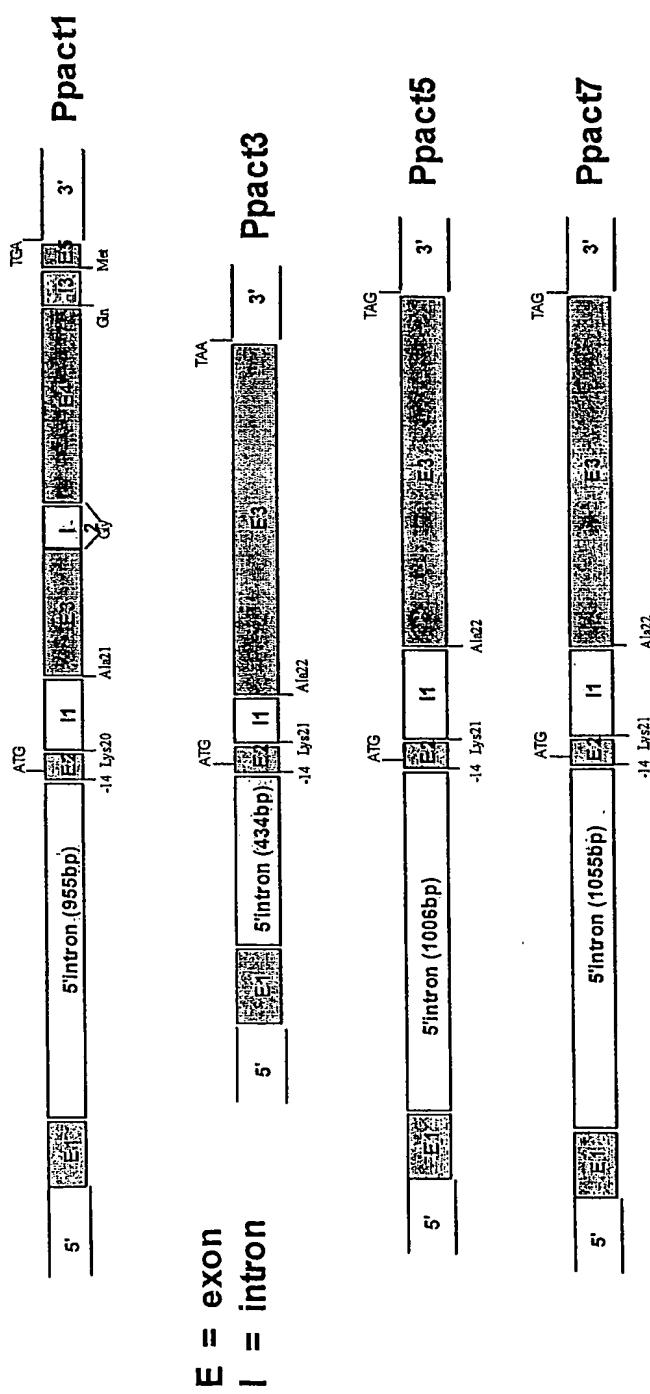


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WO 2005/014807

PCT/EP2004/008580

7/19



5' sequences resulting from iPCR:

- Ppact1: 2973 bp until ATG: 1824 bp promoter / 955 bp 5' intron
- Ppact3: 3091 bp until ATG: 2270 bp promoter / 434 bp 5' intron
- Ppact5: 3095 bp until ATG: 1909 bp promoter / 1006 bp 5' intron
- Ppact7: 3069 bp until ATG: 1805 bp promoter / 1055 bp 5' intron

**Fig. 7: Genomic structure of *Physcomitrella patens* actin genes.**

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WO 2005/014807

PCT/EP2004/008580

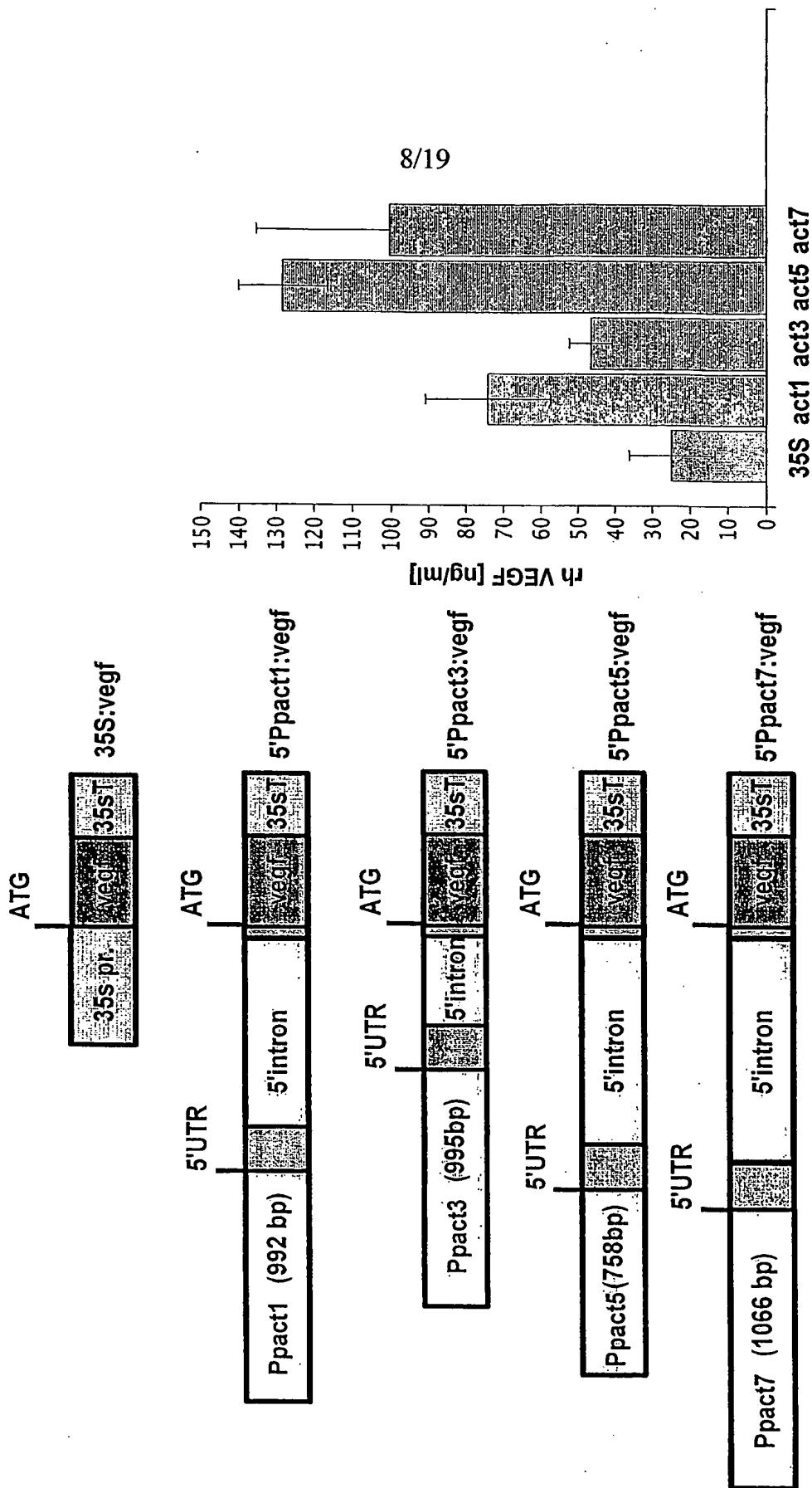


Fig. 8: Comparison of the expression activity of the different 5' actin regions.

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WO 2005/014807

PCT/EP2004/008580

9/19

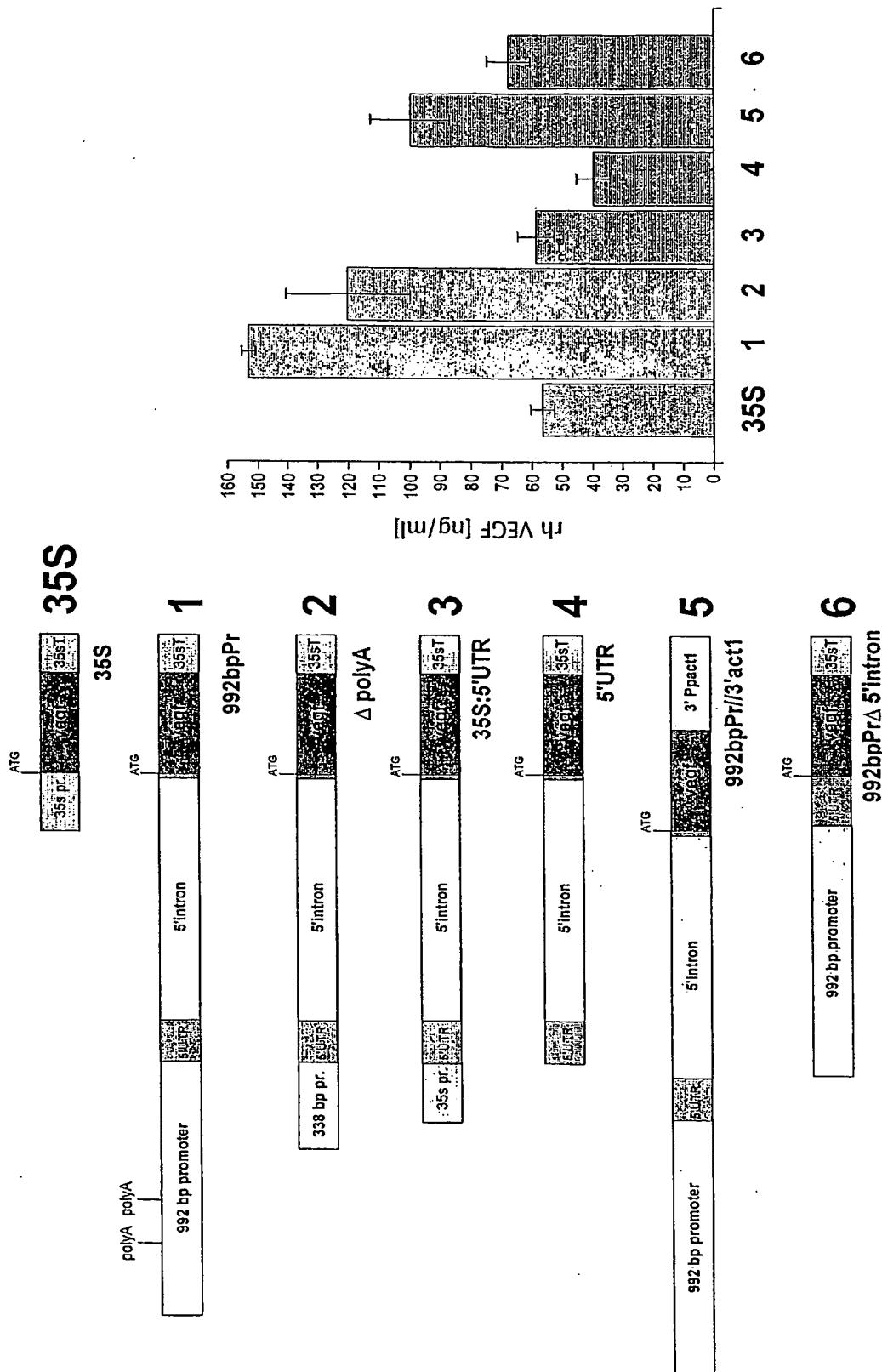
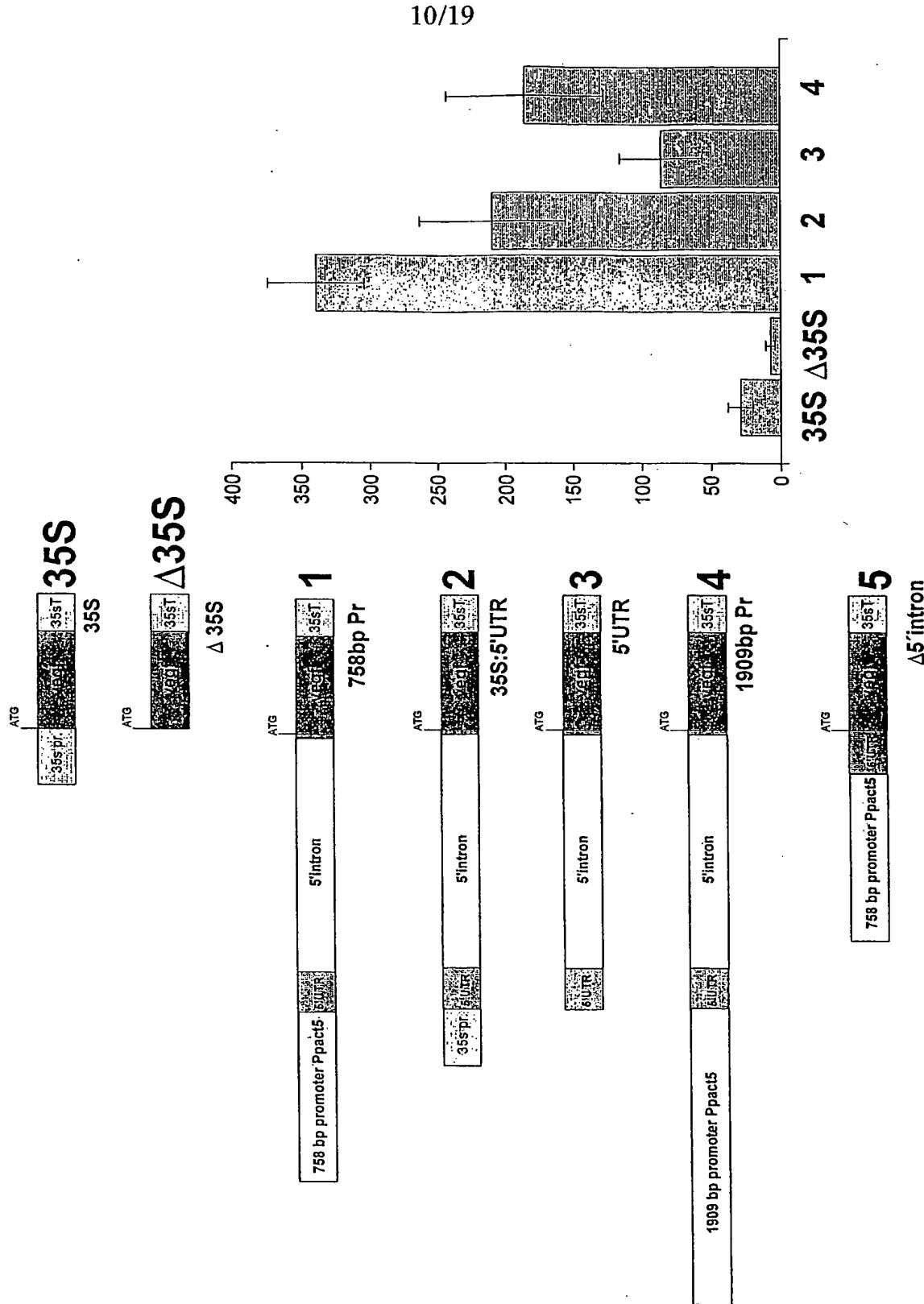


Fig. 9: Ppact1 constructs.

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WO 2005/014807

PCT/EP2004/008580



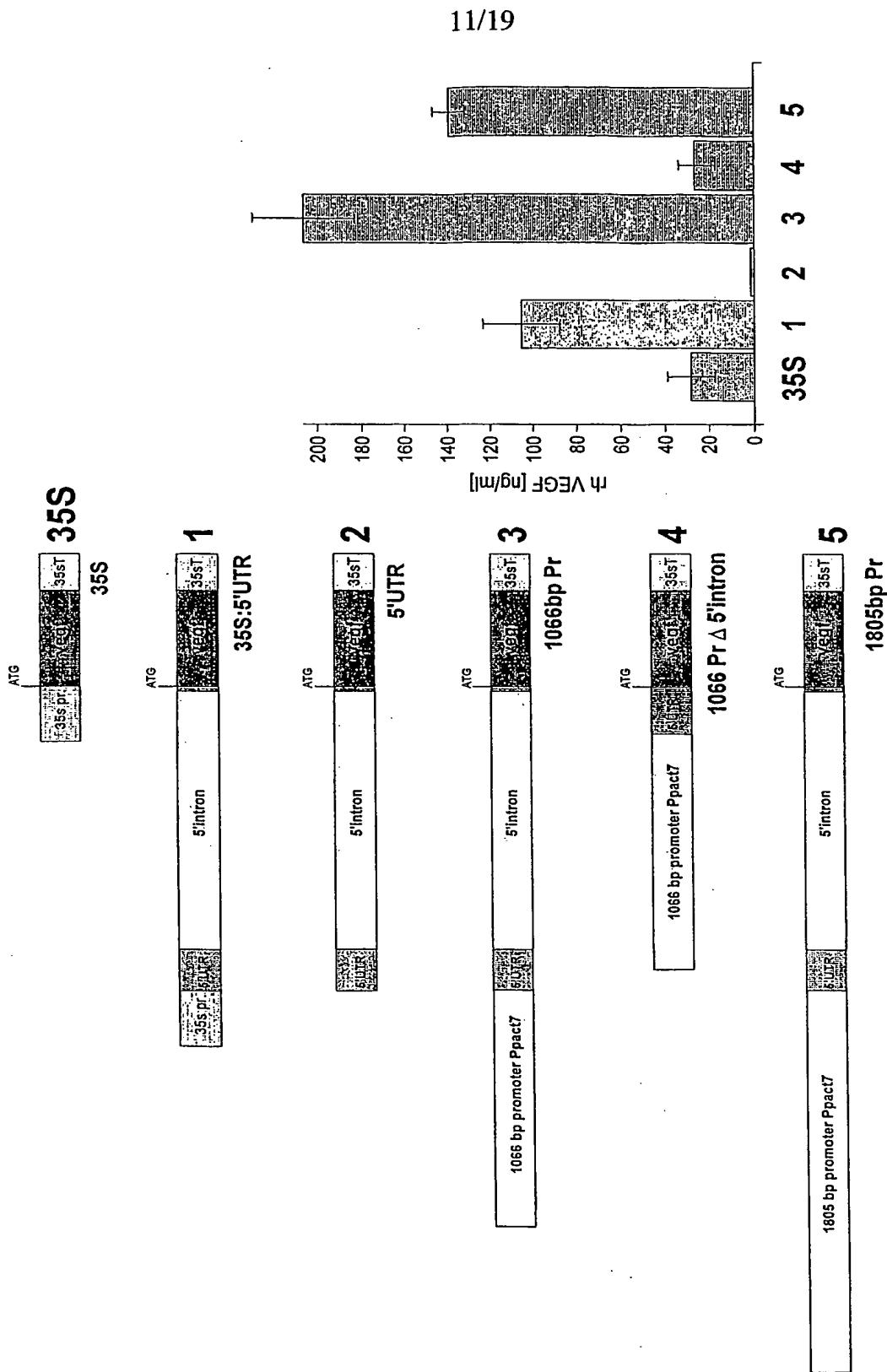


Fig. 11: Ppact 7 constructs.

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WO 2005/014807

PCT/EP2004/008580

12/19

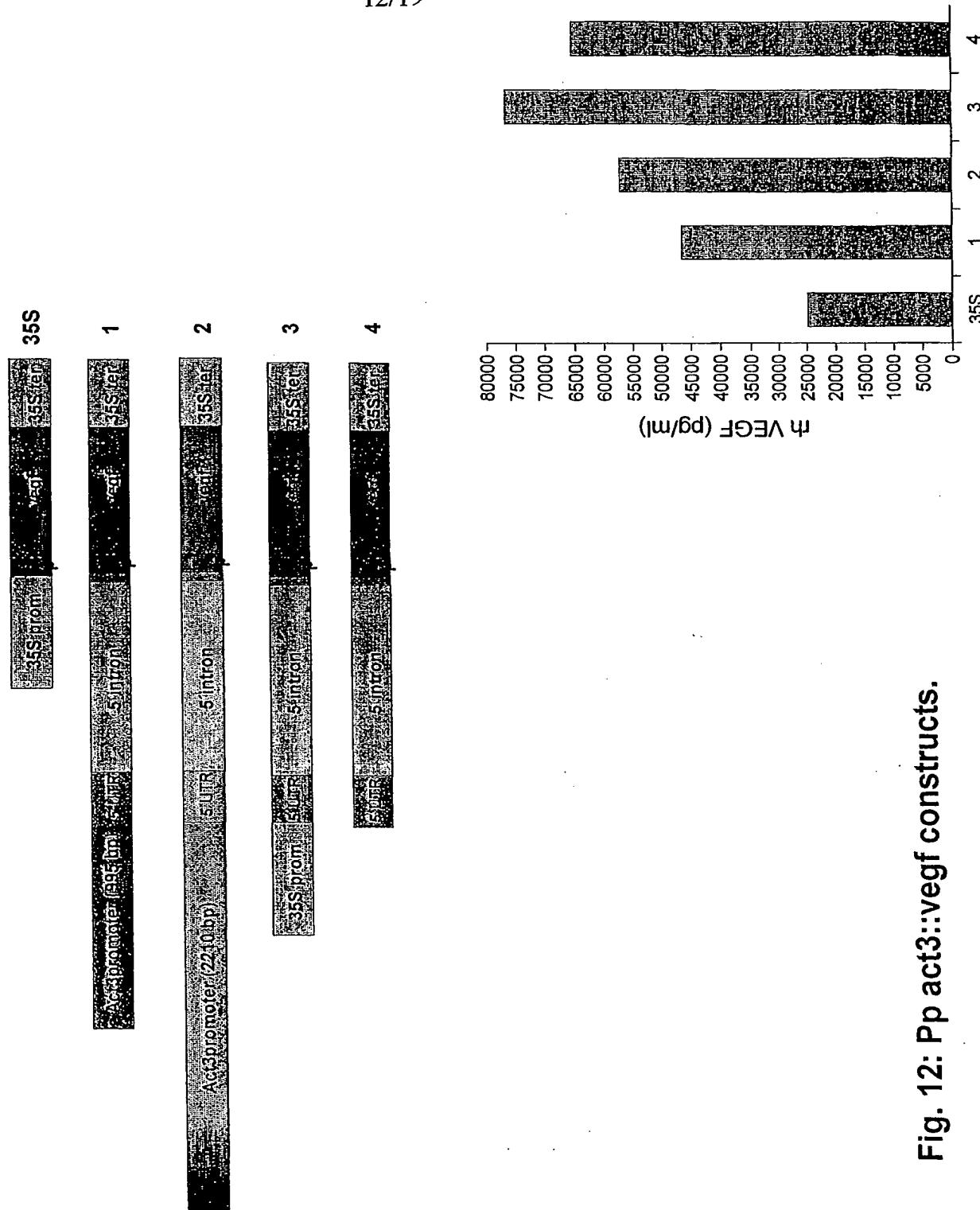


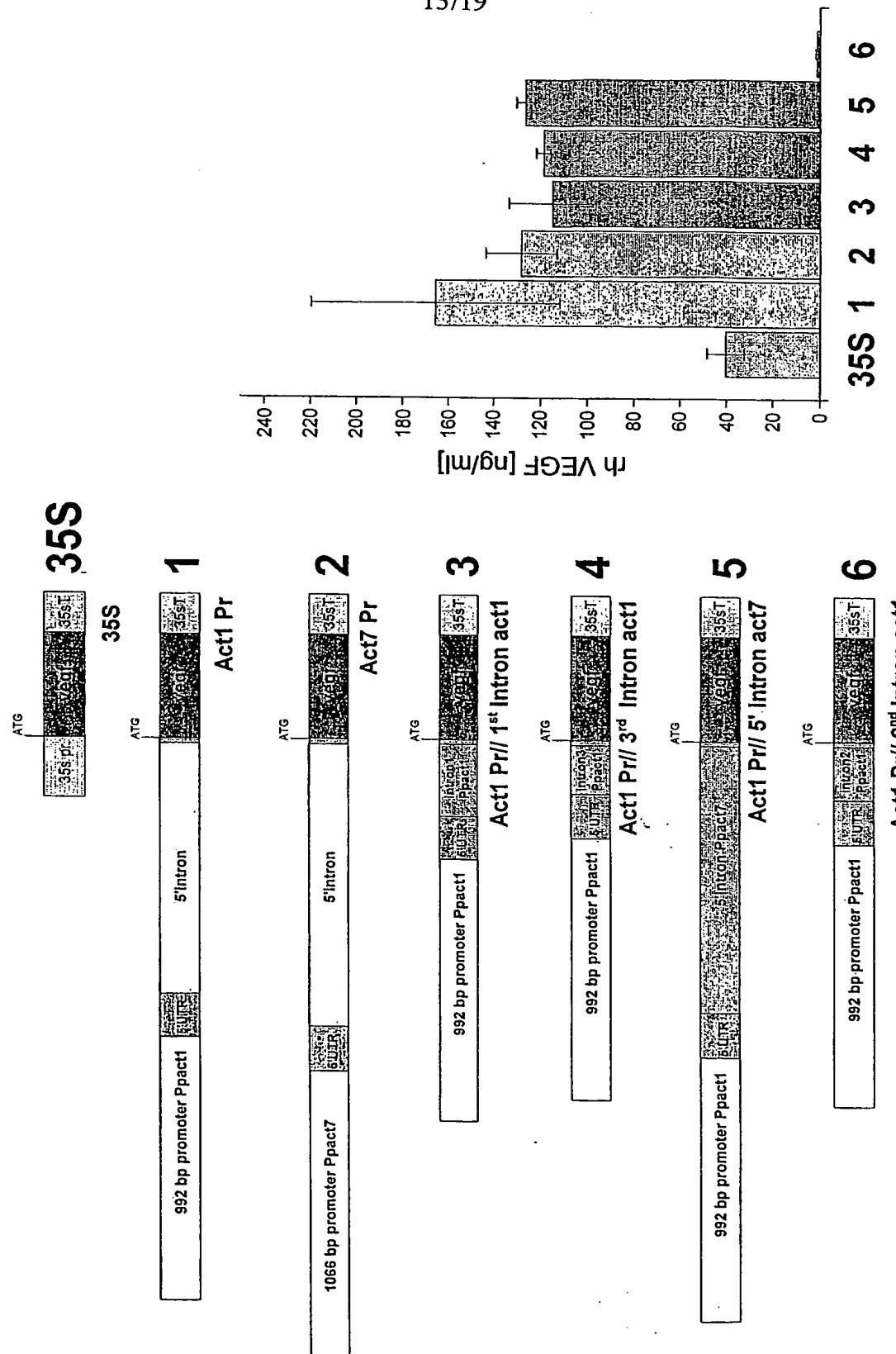
Fig. 12: Pp act3::vegf constructs.

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WO 2005/014807

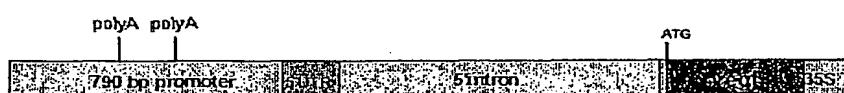
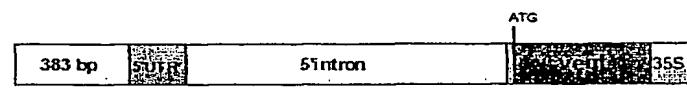
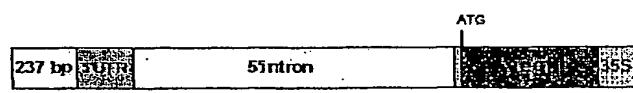
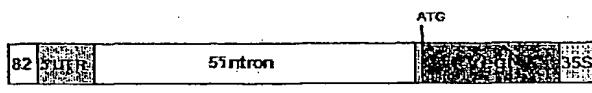
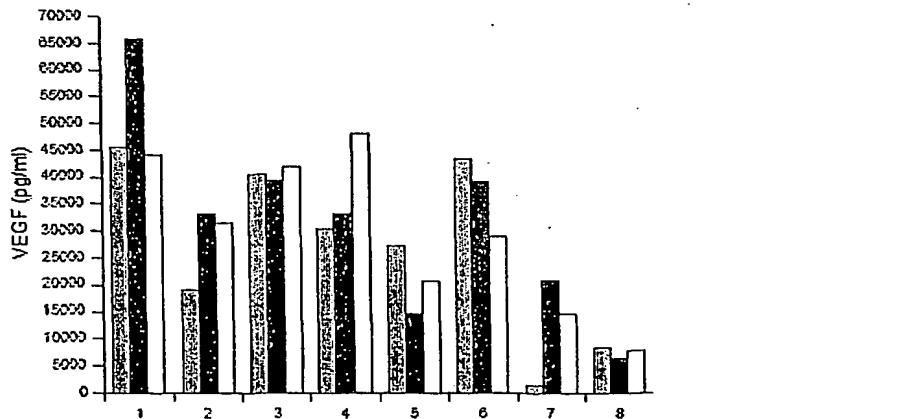
PCT/EP2004/008580

13/19



**Fig. 13: Ppact1 promoter:5' intron substitutions.**

14/19

**Fig. 14: Ppact1 promoter:vegf deletion constructs.****1. 5'Ppact1-1821:vegf****2. 5'Ppact1-992:vegf****3. 5'Ppact1-790:vegf****4. 5'Ppact1-569:vegf****5. 5'Ppact1-383:vegf****6. 5'Ppact1-237:vegf****7. 5'Ppact1-82:vegf****8. 5'UTR:vegf**

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WO 2005/014807

PCT/EP2004/008580

15/19

**Fig. 15: Ppact3 promoter:vegf deletion constructs.**

1. 5'Ppact3-2208:vegf



2. 5'Ppact3-992:vegf



3. 5'Ppact3-821:vegf



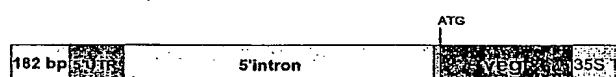
4. 5'Ppact3-523:vegf



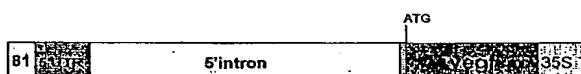
5. 5'Ppact3-323:vegf



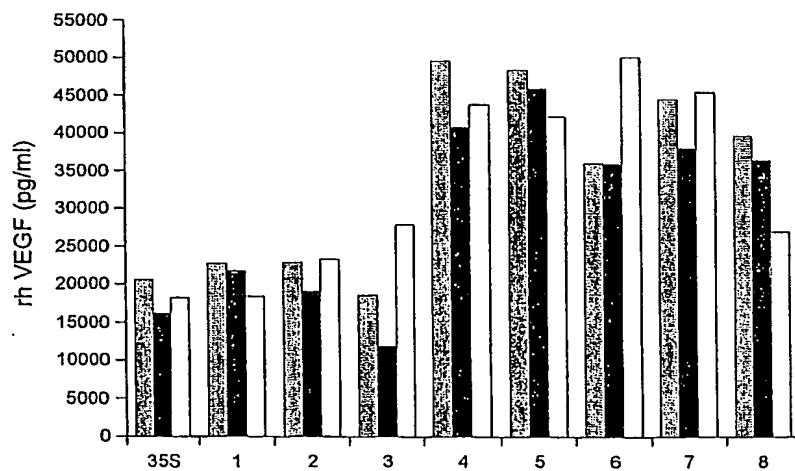
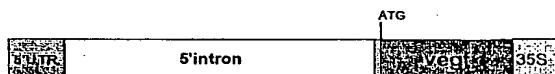
6. 5'Ppact3-182:vegf



7. 5'Ppact3-81:vegf



8. 5'UTR:vegf



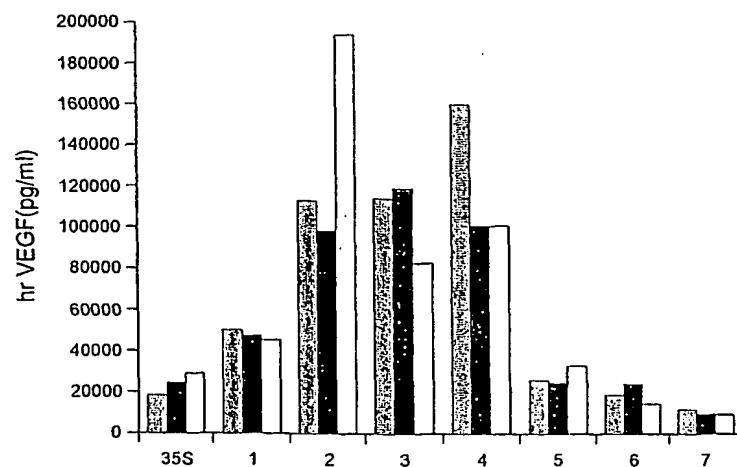
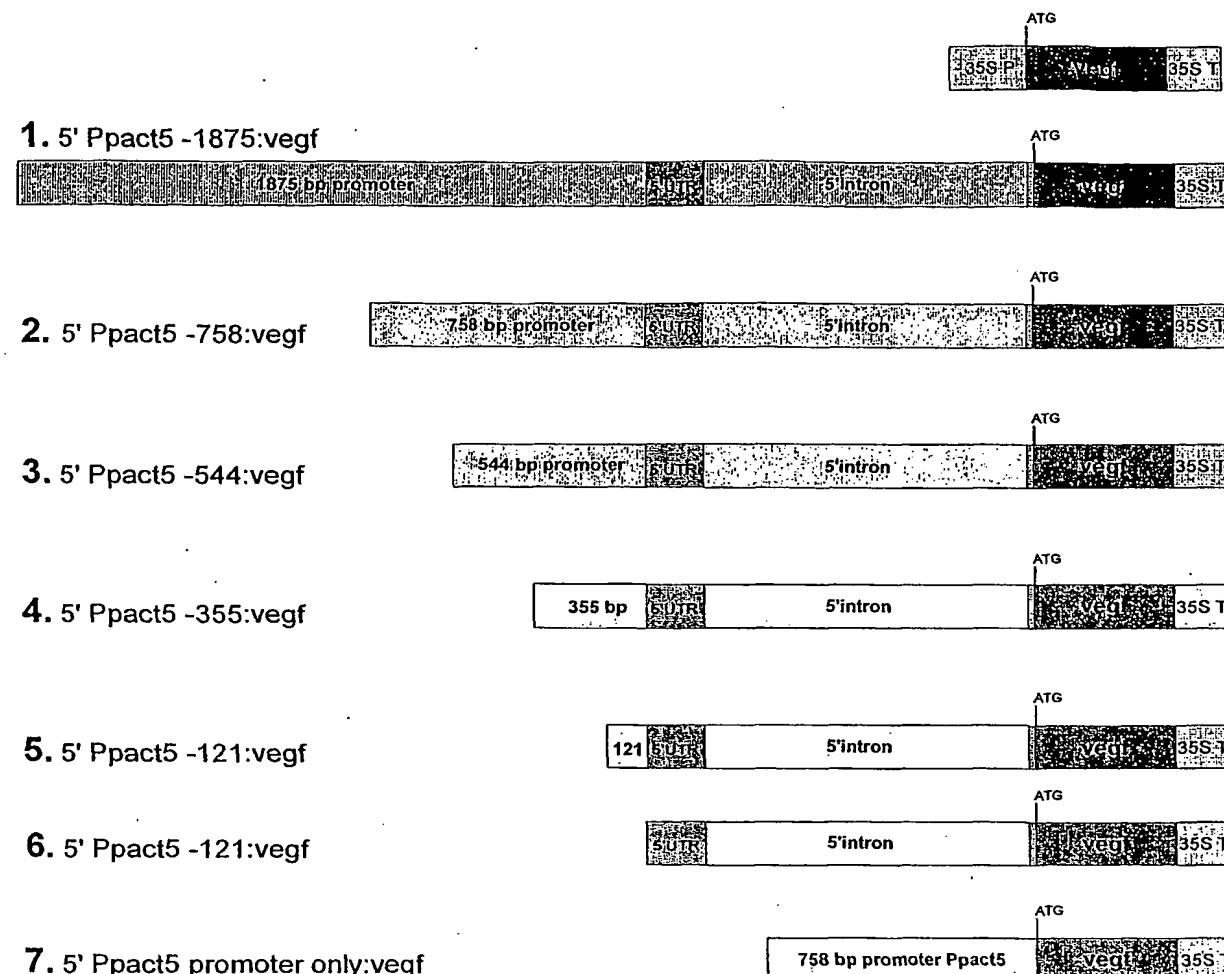
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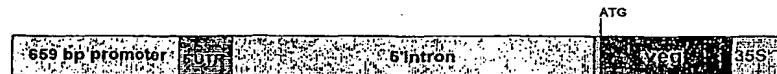
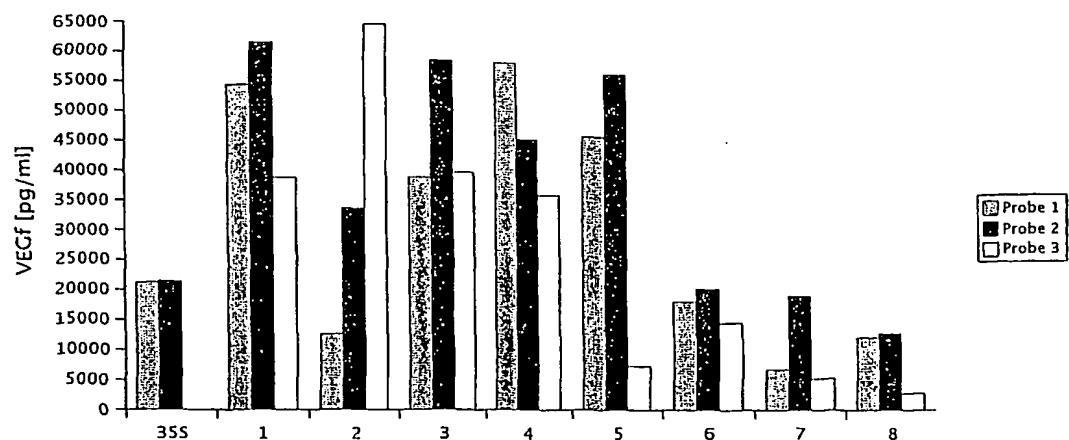
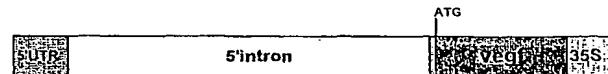
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16/19

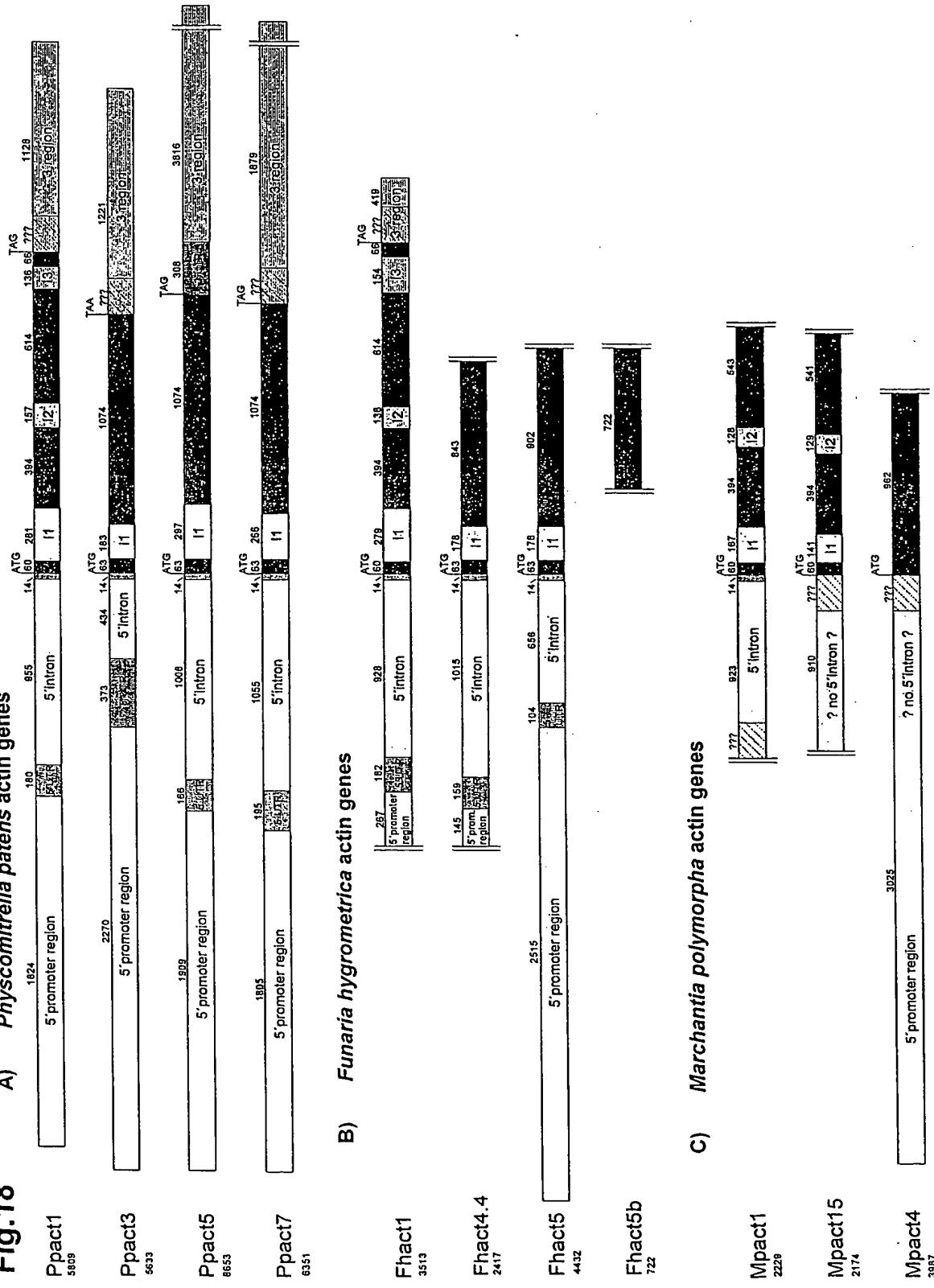
**Fig. 16: Ppact5 promoter:vegf deletion constructs.**



17/19

**Fig. 17: Ppact7 promoter:vegf deletion constructs.****1. 5' Ppact7 -1790:vegf****2. 5' Ppact7 -1070:vegf****3. 5' Ppact7 -854:vegf****4. 5' Ppact7 -659:vegf****5. 5' Ppact7 -484:vegf****6. 5' Ppact7 -299:vegf****7. 5' Ppact7 -66:vegf****8. 5' UTRact7:vegf**

18/19

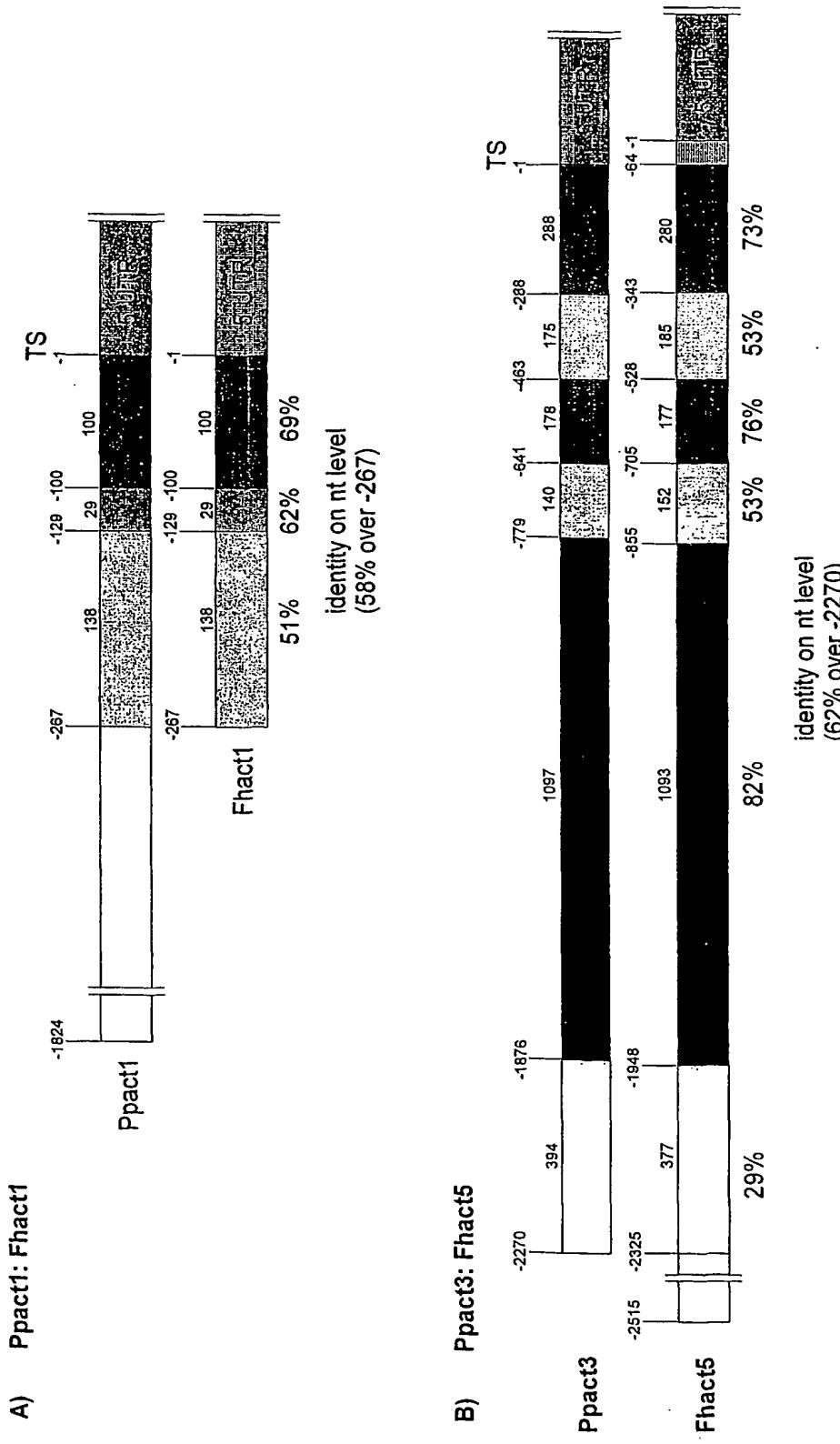
**Fig. 18**

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WO 2005/014807

PCT/EP2004/008580

19/19



**Fig.: 19** Comparison of promoter sequences of homologous actin genes from *Physcomitrella patens* and *Funaria hygrometra*